

# BIOMIN<sup>®</sup> MANGANESE

Complexed Mineral for Soil and Foliar Application

1-0-0

## Product Information

**BIOMIN MANGANESE** contains complexed manganese for soil and/or foliar application. Completely bioavailable and non-phytotoxic to plants when applied in accordance to directions. Designed to prevent and correct manganese deficiency and to boost crops during critical or fast growing periods. May be applied with nitrogen fertilizers.

### GUARANTEED ANALYSIS

Total Nitrogen (N).....	1.0%
1.0% Water Soluble Nitrogen	
Manganese (Mn).....	5.0%
5.0% Complexed Manganese	

Derived from manganese sulfate, and hydrolyzed vegetable protein.

**KEEP OUT OF REACH OF CHILDREN**

**SHAKE WELL BEFORE USE  
PREVENTS AND CORRECTS  
MANGANESE DEFICIENCIES**

## Directions and General Recommendations

### SOIL APPLICATION

**BIOMIN MANGANESE** can be applied before or at planting as banding or broadcast. The application rate is 1 qt. to 1 gal./ac. (2.5-10 l/ha) depending on soil conditions and application methods. For maintenance, 1 qt./ac. (2.5 l/ha) is recommended. Dilute **BIOMIN MANGANESE** with enough water to cover the entire acre.

### FOLIAR APPLICATION

**FIELD CROPS:** Apply 1-4 pt./ac. (1.25-5 l/ha) of **BIOMIN MANGANESE** when crops are about 4-6 in. (10-20 cm) high or when deficiency symptoms appear. Repeat the application in 2-4 weeks if necessary.

**FRUIT TREES AND GRAPES:** Apply 1-4 pt./ac. (1.25-5 l/ha) of **BIOMIN MANGANESE** starting at bud break or when deficiency symptoms appear. Repeat the application in about 4 weeks if necessary.

**VEGETABLE CROPS:** Apply 1-4 pt./ac. (1.25-5 l/ha) of **BIOMIN MANGANESE** at about 2-4 weeks after emergence, or when deficiency symptoms appear. Repeat the application in 1-3 weeks if necessary.

**ALMONDS, WALNUTS, PISTACHIOS, AND OTHER NUT CROPS:** Apply 1-4 pt./ac. (1.25-5 l/ha) before bloom. Repeat the application if necessary.

For best results, apply **BIOMIN MANGANESE** when the crop is in active growing stage, after irrigation or natural rain fall. For foliar application, it should be diluted with at least 100 times of water. **BIOMIN MANGANESE** will lower high pH of water and decrease the hydrolysis of most pesticides.

**BIOMIN MANGANESE** can be applied to strawberry, lettuce, tomato, celery, grapes, stone fruits, tree fruits, vegetables, commercial turf, and ornamental gardens.

**Precautionary statement:** do not swallow. Wash hands thoroughly after handling. **First Aid:** if swallowed: Seek medical attention if feeling unwell. Rinse mouth. **Storage & Disposal:** store in a safe manner. Dispose product/container in accordance with federal, state, and local regulations.

### LIMITED WARRANTY

Manufacturer or seller makes no warranty, whether expressed or implied, concerning the use of this product other than for the purposes indicated on the label. Neither manufacturer nor seller shall be liable for any injury or damage caused by this product due to misuse, mishandling, or any application not specifically described on the label.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

**NET CONTENTS:** 2.5 gal. (9.45 l)  
**Weight per Gallon:** 10.0 lb. (4.5 kg) @ 68°F  
**U.S. Pat.# 5,504,055**  
**Lot #:**



MANUFACTURED BY: JH BIOTECH, INC.  
P.O. Box 3538, Ventura, CA 93006 U.S.A  
805-650-8933 [jhbiotech.com](http://jhbiotech.com)

051012-CA-B-3



Copyright © 2019 All rights reserved